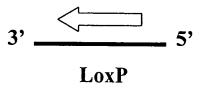
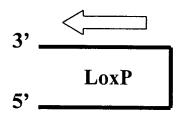
Tile. IN VITRO AMPLIFICATION OF NUCLEIC ACID
MOLECULES VIA CIRCULAR REPLICONS
Inventor: Jeffrey I. Auerbach
Express Mail No.: EV334229453US
Atty Docket No. INL-083CP6C5
Atty: Diana M. Steel
Figure 1 of 19





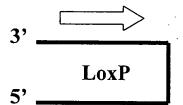
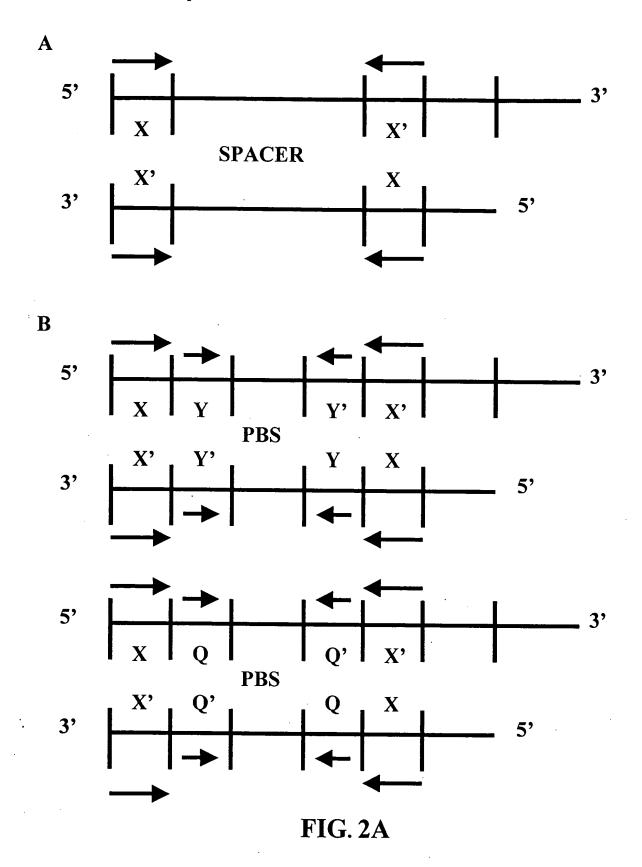


FIG. 1

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Atty: Diana M. Steel
Figure 2 of 19



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Figure 3 of 19

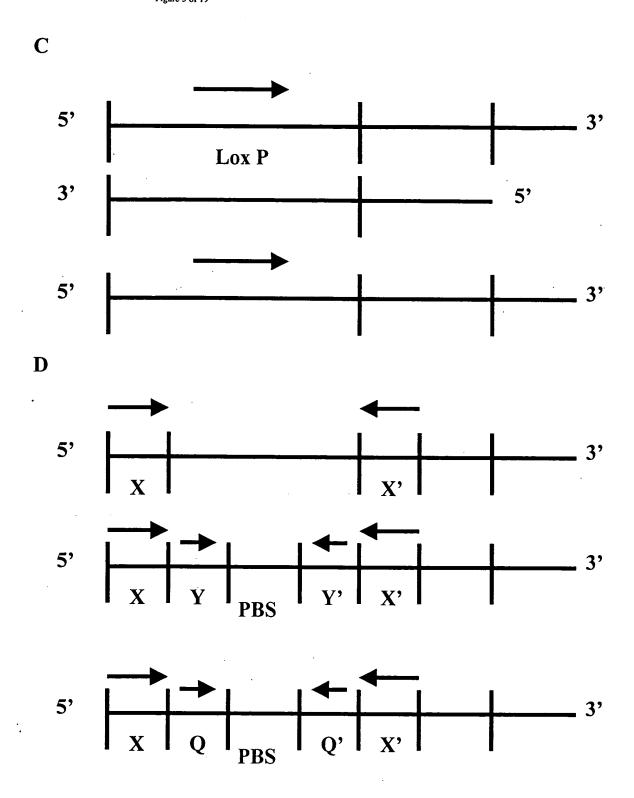


FIG. 2B

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Figure 4 of 19

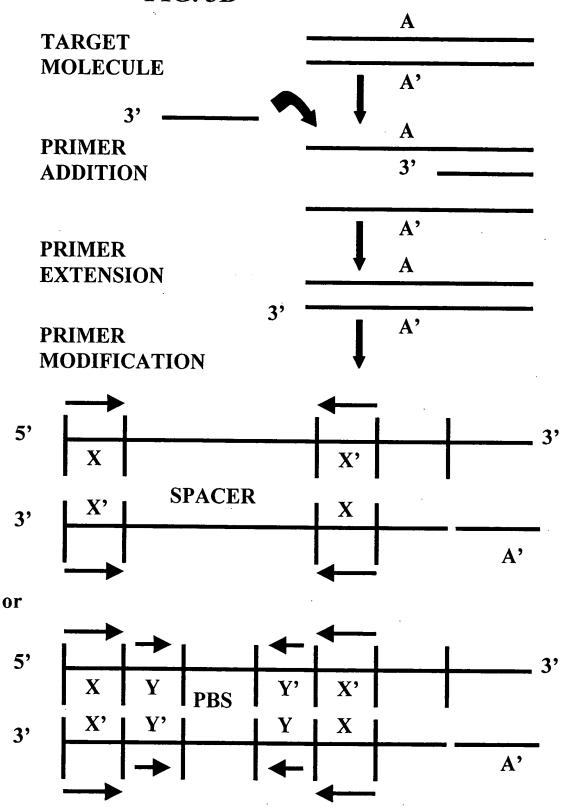
FIG. 3A A **TARGET MOLECULE** A' 3' A **PRIMER** 3' **ADDITION** A' **PRIMER** A **EXTENSION** 3' A' **PRIMER MODIFICATION** 5' 3' 3' A **SPACER** X 3' 5' or 5' 3' 3' **PBS** B Y' X' X 3' 5' or 5' 3' \mathbf{C} **SPACER** 3'

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FIG. 3B

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D



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Figure 6 of 19

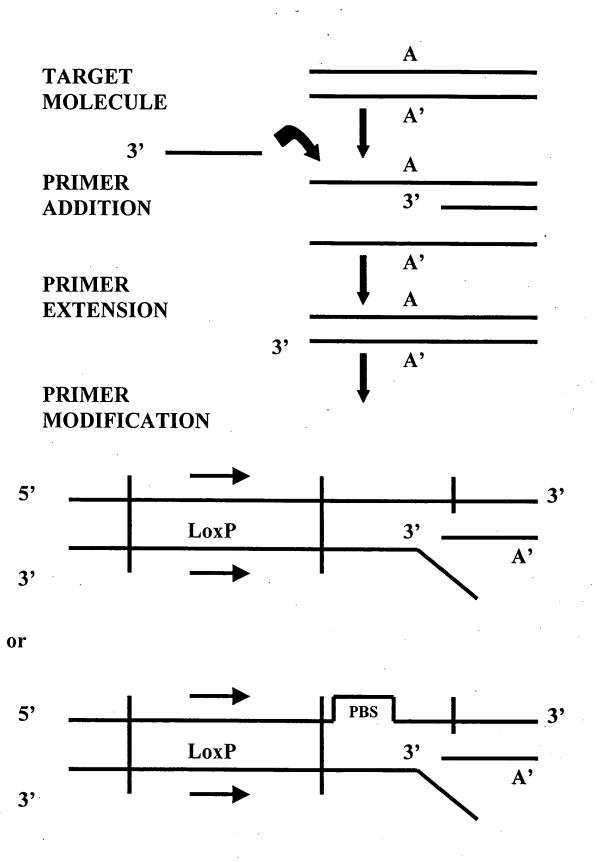
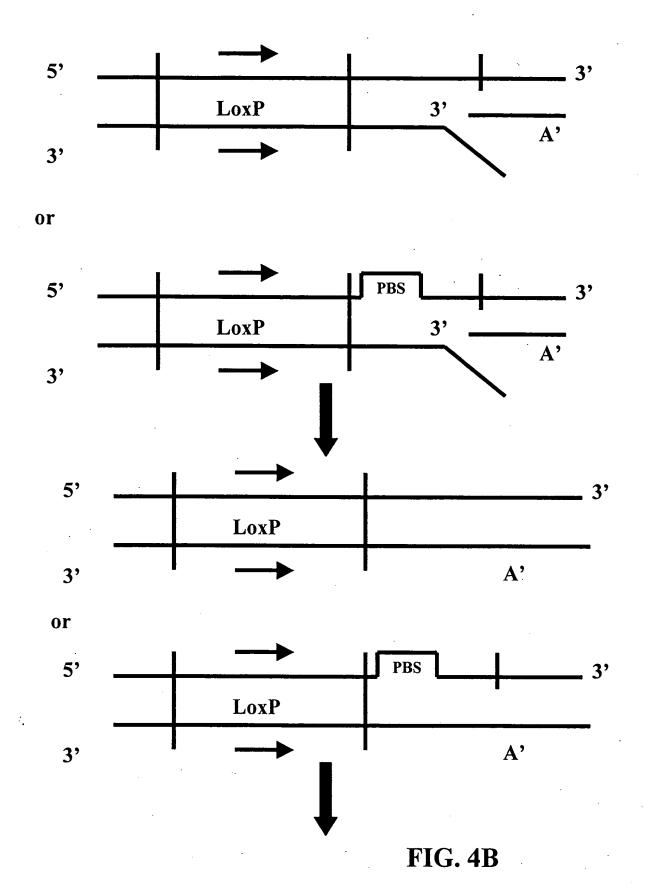


FIG. 4A

Int.e. A V...KU AMPLIFICATION OF NUCLEIC ACID MOLECULES VIA CIRCULAR REPLICONS
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Figure 7 of 19



Tule: IN VITRO AMPLIFICATION OF NUCLEIC ACID MOLECULES VIA CIRCULAR REPLICONS Inventor: Jeffrey I. Auerbach Express Mail No.: EV334229453US Atty Docket No. INL-083CP6C5 Atty: Diana M. Steel Figure 8 of 19 5' 3' LoxP A' 3' or 5' **PBS** LoxP A' 3' LoxP **MODIFICATION OF** 5' TERMINUS LoxP A LoxP LoxP A' or LoxP LoxP **A**' FIG. 4C

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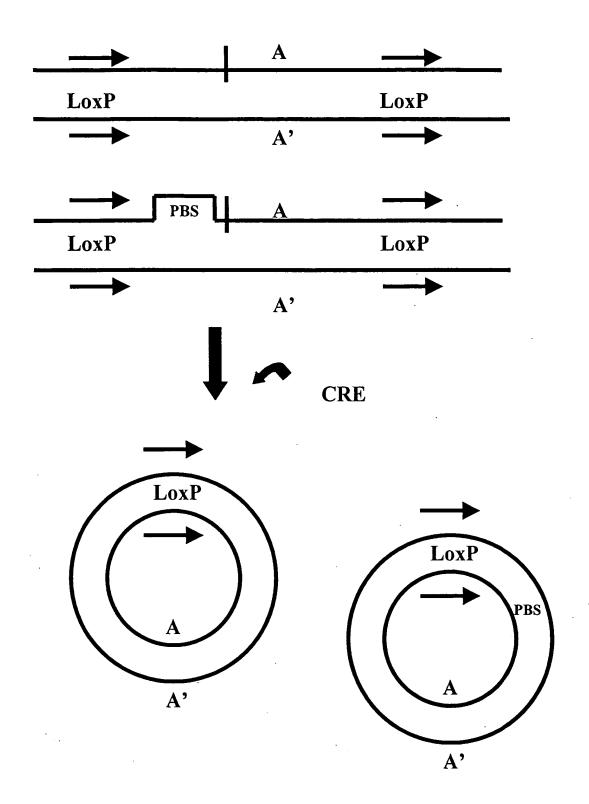


FIG. 4D

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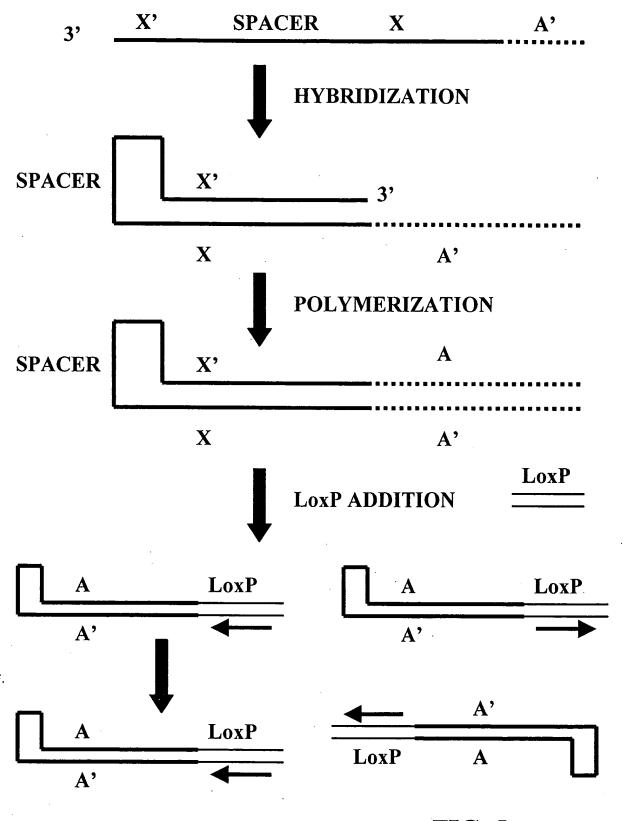
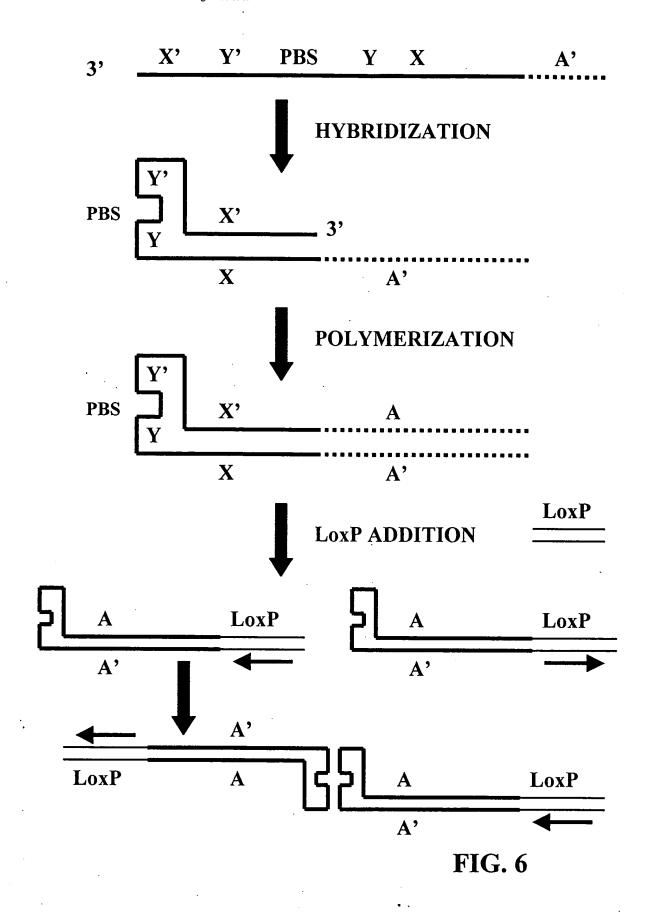


FIG. 5

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Atty Docket No. INL-083CP6C5
Atty: Diana M. Steel Atty: Diana M. Steel

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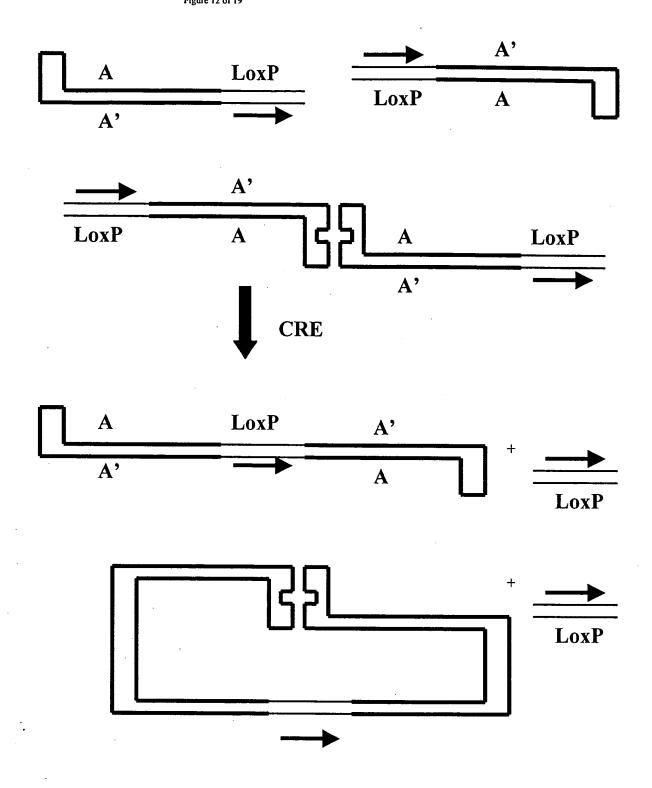


FIG. 7

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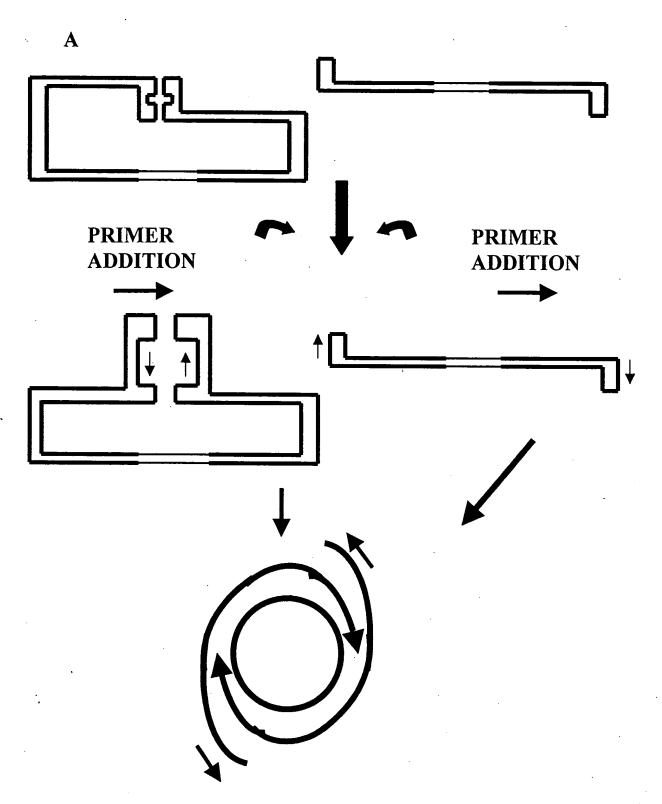
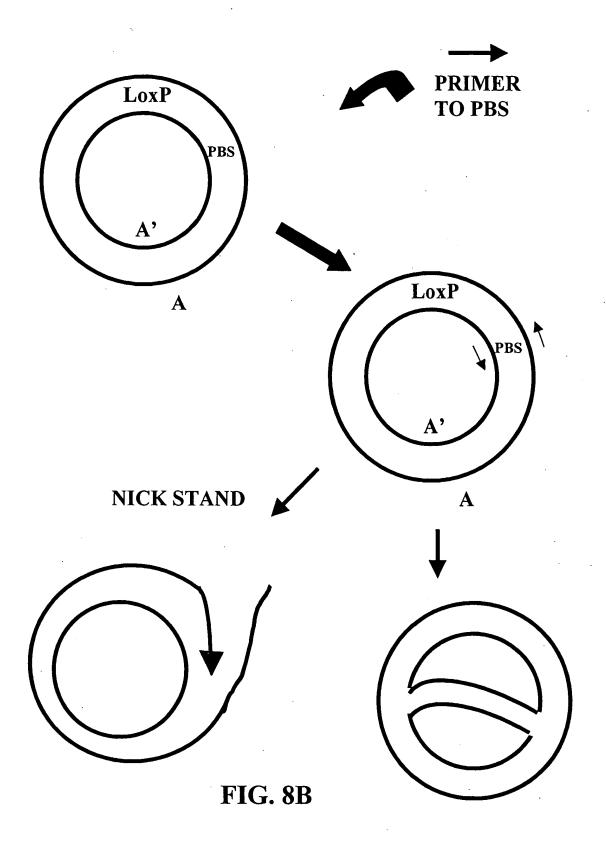
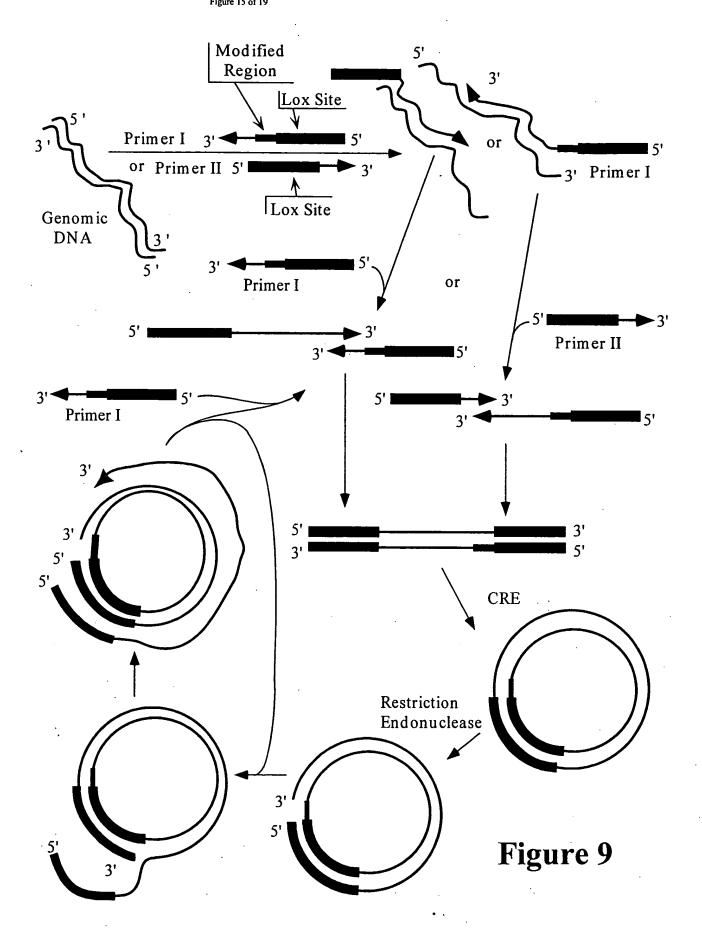


FIG. 8A

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Atty: Diana M. Steel
Figure 14 of 19

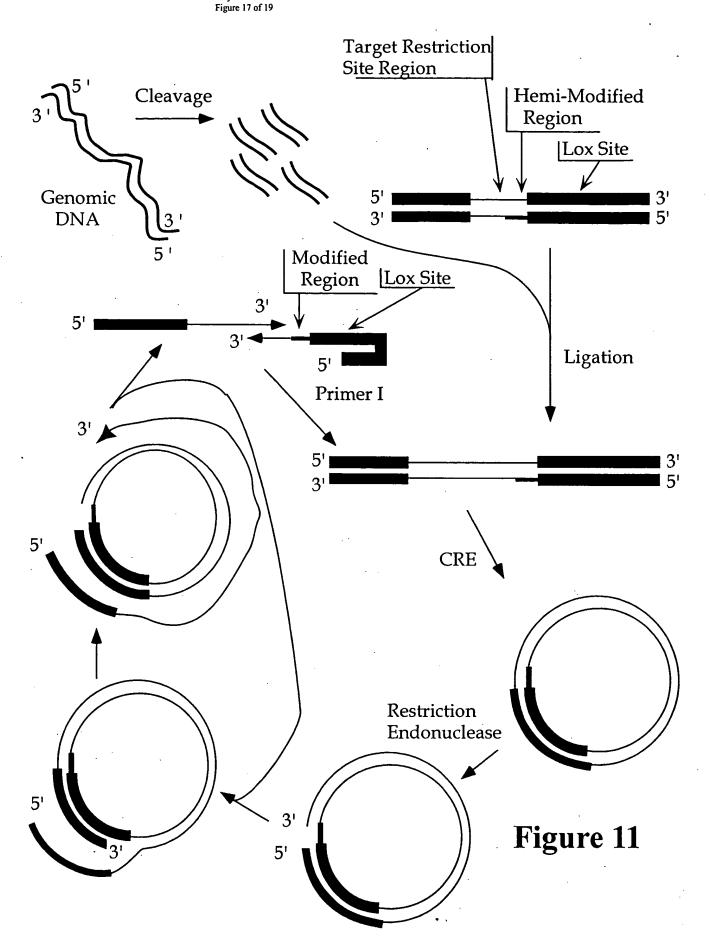


Title: IN VITRO AMPLIFICATION OF NUCLEIC ACID MOLECULES VIA CIRCULAR REPLICONS Inventor: Jeffrey I. Auerbach Express Mail No.: EV334229453US Atty Docket No. INL-083CP6C5 Atty: Diana M. Steel Figure 15 of 19

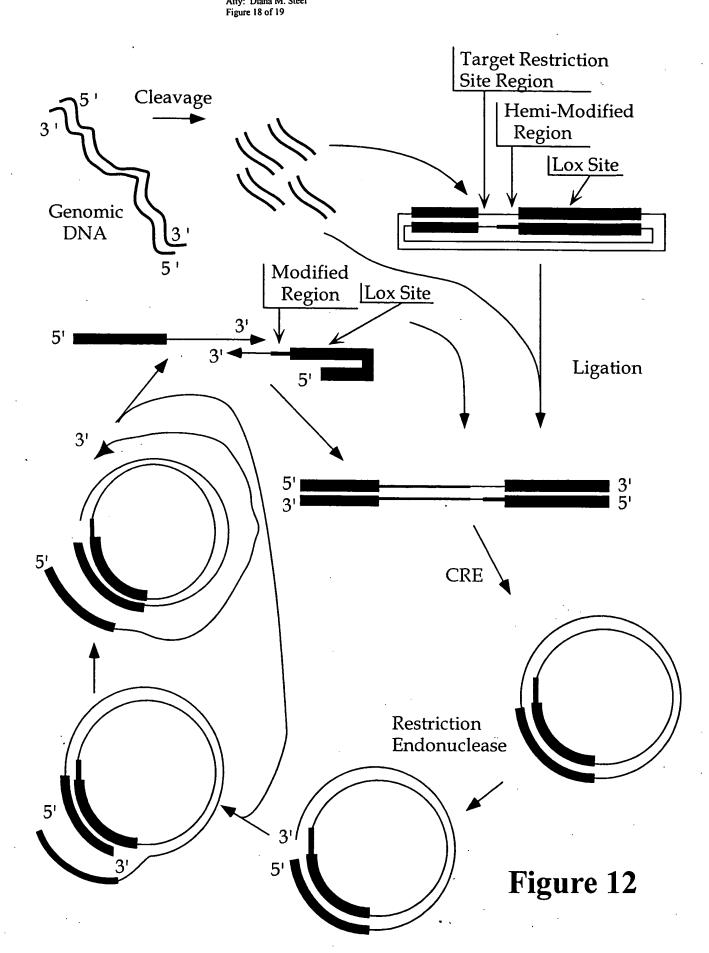


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Atty: Diana M. Steel
Figure 16 of 19 Modified Region Lox Site Primer I or Primer II -3' Primer I Lox Site Genomic DNA Primer I or 5' Primer II 3' Primer I 5' | 3' [|] CRE Restriction Endonuclease Figure 10

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